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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	T		
10/000 700		THOST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/008,780	11/13/2001	Farhad Farassat	MEISS63.001AUS	4733	
20995 KNORRE M	7590 05/21/2004 IARTENS OLSON &	DEADLAD	EXAMINER		
2040 MAIN S	TREET	EAR LLP	VU, PHUONG T		
FOURTEENT IRVINE, CA			ART UNIT	PAPER NUMBER	
IKTINE, CA	32014	•	2841		

DATE MAILED: 05/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			The -
	Applicati n N .	Applicant(s)	-010
	10/008,780	FARASSAT, FARHAI	)
Office Action Summary	Examiner	Art Unit	
	Phuong T. Vu	2841	
The MAILING DATE of this communicati Period for Reply	n appears on th c ver sheet w	rith the c rrespondence addre	ess
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailling date of this communication. If the period for reply specified above is less than thirty (30) days of the period for reply is specified above, the maximum statutory are provided to the period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON statute course the explications.	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this comm	unication.
Status			
1) Responsive to communication(s) filed on	10 March 2004		
	This action is non-final.		
3) Since this application is in condition for all		ers prosecution as to the me	rito io
closed in accordance with the practice un	der <i>Ex parte Quavle</i> . 1935 C.D	) 11 453 O G 213	ents is
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,		
4) Claim(s) <u>1,4-18 and 20-28</u> is/are pending			
4a) Of the above claim(s) <u>4,5,12,13,15,16,</u>	20,22 and 25 is/are withdrawn	from consideration.	
5) Claim(s) is/are allowed.			
6) Claim(s) 1.6-11.14.17.18.21.23.24 and 26	-28 is/are rejected.	•	
7) Claim(s) is/are objected to.			•
8) Claim(s) are subject to restriction a	nd/or election requirement.	*	
Application Papers		* **	
9) The specification is objected to by the Exar	niner.		
	accepted or b)  objected to b	by the Evaminer	
Applicant may not request that any objection to	the drawing(s) be held in abeyon	Co. Soo 37 CED 1 95(a)	
Replacement drawing sheet(s) including the co	rrection is required if the drawing/	s) is objected to Sec 27 CFD 4	4047-05
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-1	121(a). 52
Priority under 35 U.S.C. § 119		· · · · · · · · · · · · · · · · · · ·	JZ.
•	·		
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docum	ents have been received	·	
2. Certified copies of the priority docum	ents have been received in An	Inlication No.	•
3. Copies of the certified copies of the	priority documents have been r	eceived in this National Star	
application from the International Bu	reau (PCT Rule 17.2(a)).	· · · · · · · · · · · · · · · · · · ·	E
* See the attached detailed Office action for a	list of the certified copies not re	eceived.	;
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Notice of References Cited (PTO-892)	. 4) 🔲 Interview Su	mmary (PTO-413)	a e
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/	Paper No(s)/	Mail Date	į.
Paper No(s)/Mail Date 3/12/6 4	(08) 5) ☐ Notice of Info 6) ☐ Other:	ormal Patent Application (PTO-152)	
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U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 6-7, 10-11, 14, 21, 23-24, 26-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Kucharek (US 4,748,495). Regarding claim 1, the reference discloses a miniaturized circuit housing to encapsulate and provide external contacts for at least one integrated circuit 50 having circuit contacts 58, the circuit housing comprising a housing floor (comprising 48, 54) comprising a lower surface 48 which includes housing contact elements 170 for making external contact and an upper surface 54 with contact surfaces 56 arranged to correspond to the circuit contacts and the housing floor being configured to receive at least one integrated circuit 50 and a housing lid 47 permanently attachable to the housing floor so as to define the housing and the housing lid comprising at least one spring element 142 fixedly attached to a lower surface of the housing lid such that, when at least one integrated circuit is positioned within the housing, the at least one integrated circuit is pressed resiliently against the upper surface of the housing floor with no permanent connection between the contact surfaces of the housing and the at least one integrated circuit.

Regarding claim 6, a wall that substantially rigidly connects the floor and the lid of the housing to one another at their circumference so as to define an interior of the

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housing and tightly seals off the interior of the housing when the housing floor and lid are attached.

Regarding claim 7, the wall is formed as part of the housing floor or the housing lid and wherein the wall is sealable via a butt joint to the respective housing lid or housing floor in a gas tight manner. The reference teaches that providing a hermetic circuit housing.

Regarding claim 10, the housing has a flat four-cornered shape with a substantially level and rectangular housing floor and housing lid.

Regarding claim 11, the lid of the housing is rigidly constructed and joined to the wall.

Regarding claim 14, the housing contact elements are at least partially spherical.

Regarding claim 21, the reference discloses an electronic circuit housing assembly comprising a circuit chip 50 having chip contacts 58, a housing floor (comprising 48, 54) comprising a plurality of outer contacts 170 disposed on a lower surface of the housing floor so as to provide external contact and which are in electrical contact with a corresponding plurality of inner contacts 56 arranged to correspond to the chip contacts and a housing lid permanently attachable 47 to the housing floor so as to define a housing wherein positioning of the chip within the housing and attachment of the housing lid to the housing floor inherently induces an elastic pressure on the chip so as to create solely a compression contact between the chip contacts and the inner contacts.

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Regarding claim 23, at least one elastic element is interposed between the housing lid and the chip.

Regarding claim 24, the at least one elastic element comprises a spring.

Regarding claim 26, the at least one elastic element is fixedly attached to the housing lid or the chip.

Regarding claim 27, the at least one elastic element is held in compression between the housing lid and the chip by the attachment of the housing lid to the housing floor.

#### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 8-9, 17-18, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kucharek (US 4,748,495). Regarding claim 8, the reference does not teach that the seal is formed by an external plastic encapsulation of at least the butt joint between the housing lid or housing floor and the wall. However, providing such an external plastic encapsulation is expedient in the art.

Regarding claim 9, the reference does not teach that the interior of the housing is filled with an inert gas when sealed. However, providing inert gas in hermetic packages is expedient in the art.

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Regarding claim 17, the reference shows that contact surfaces are configured as bumps so as to make internal contact with the circuit contacts which are flat elevations. It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the contact surfaces as flat elevations and the circuit contacts as bumps, since it has been held that a mere reversal of the essential working parts of a device involves only routine skill in the art. *In re Einstein*, 8 USPQ 167.

Regarding claim 18, the reference is silent about the composition of the contact surfaces. It would have been obvious to those skilled in the art at the time the invention was made that the contact surfaces may be formed from gold as this element provides excellent conductivity and is never corrosive. Regarding the manufacturing process with respect to how the contact surfaces are formed, in article claims, it has been settled that the presence of process limitations in product claims, which product does not otherwise distinguish over the prior art, cannot impart patentability to that product. (In re Johnson, 157 USPQ 670, 1968). No patentable weight is given to intermediate steps or intended steps in the process of manufacturing the final article. The recited final structure of the article is relied upon for the determination of patentability.

Regarding claim 28, the reference is silent about the composition of the outer contacts or the chip contacts. However, it would have been obvious to those skilled in the art at the time the invention was made that these contacts may be formed of gold as this element provides excellent electrical conductivity and is never corrosive.

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## Response to Arguments

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5. Applicant's arguments filed March 10, 2004 have been fully considered but are moot in view of the new ground(s) of rejection made to address these amended claims.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong T. Vu whose telephone number is (571) 272-2111. The examiner can normally be reached on Mon. & Tues., 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David S. Martin can be reached on (571) 272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PTVu / Patent Examiner

5-18-04